9. The apparatus according to claim **7**, wherein the second voltage value corresponds to a minimum voltage value required to operate the second wireless module.

10. The apparatus according to claim **7**, wherein the second voltage value corresponds to a voltage value to stop an operation of the second wireless module or make the second wireless module wait.

11. The apparatus according to claim **1**, further comprising a display configured to display an image.

12. The apparatus according to claim **11**, wherein the controller is configured to activate a control icon for operating the second wireless module to display the activated control icon on the display if determining that the received first wireless signal is the normal signal, and deactivate the control icon to display the deactivated control icon on the display if determining that the received first wireless signal is an abnormal signal.

13. The apparatus according to claim **1**, wherein the electronic apparatus comprises a set-top box, a first mobile phone, a first tablet personal computer (PC), or a first note book computer.

14. The apparatus according to claim **13**, wherein the external apparatus comprises a remote controller, a second mobile phone, a second tablet PC, or a second note book computer.

15. A wireless signal receiving method of an electronic apparatus comprising:

receiving, or transmitting and receiving a first wireless signal corresponding to a user's input via a first wireless module from, or to and from an external apparatus;

determining whether the received first wireless signal is a normal signal; and

controlling a power supplied to a second wireless module for transmitting and receiving a second wireless signal different from the first wireless signal, based on the determination.

16. The method according to claim **15**,

wherein the first wireless signal comprises at least one of an infrared (IR) signal and a Bluetooth signal, and

wherein the second wireless signal comprises at least one of a wireless fidelity (WiFi) signal and a long term evolution (LTE) signal.

17. The method according to claim **15**,

wherein the determining comprises:

analyzing the received first wireless signal when the second wireless module is in operation; and

determine whether the received first wireless signal is the normal signal based on the analysis.

18. The method according to claim **17**, wherein the analyzing comprises analyzing whether the received first wireless signal has a format coinciding with a predetermined pulse format.

19. The method according to claim **15**, wherein the controlling comprises:

adjusting a voltage supplied to the second wireless module, in a first voltage value if determining that the received wireless signal is the normal signal; and

adjusting the voltage supplied to the second wireless module, in a second voltage value lower than the first voltage value if determining that the received wireless signal is an abnormal signal.

20. The method according to claim **19**, wherein the first voltage value comprises a voltage value to normally or stably drive the second wireless module.

21. The method according to claim **20**, wherein the first voltage value comprises a voltage value defined as a standard.

22. The method according to claim **19**, wherein the second voltage value comprises a minimum voltage value required to operate the second wireless module.

23. The method according to claim **19**, wherein the second voltage value comprises a voltage value to stop an operation of the second wireless module or make the second wireless module wait.

24. The method according to claim **15**, wherein the controlling comprises:

activating a control icon for operating the second wireless module to display the activated control icon on the display if determining that the received first wireless signal is the normal signal; and

deactivating the control icon to display the deactivated control icon on the display if determining that the received first wireless signal is an abnormal signal.

25. A display system comprising:

an electronic apparatus configured to receive at least one of a broadcast signal and broadcasting information and comprising a first wireless module configured to receive, or transmit and receive a first wireless signal corresponding to a user's input from, or to and from an external apparatus, a second wireless module configured to transmit and receive a second wireless signal different from the first wireless signal via a network, and a controller configured to determine whether the first wireless signal received by the first wireless module is a normal signal, and control a power supplied to the second wireless module, based on the determination; and

a display apparatus configured to display the at least one of the broadcast signal and the broadcasting information received by the electronic apparatus.

26. A signal transmitting and receiving system comprising:

a first electronic apparatus configured to receive a content by using a first wireless signal and a second wireless signal different from the first wireless signal and comprising a first wireless module configured to receive, or transmit and receive the first wireless signal from, or to and from an external apparatus, a second wireless module configured to transmit and receive the second wireless signal via a network, and a controller configured to determine whether the first wireless signal received by the first wireless module is a normal signal, and control a power supplied to the second wireless module, based on the determination; and

a second electronic apparatus configured to transmit or receive the content from or to the first electronic apparatus by using at least one of the first wireless signal and the second wireless signal.

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